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FIG. 1

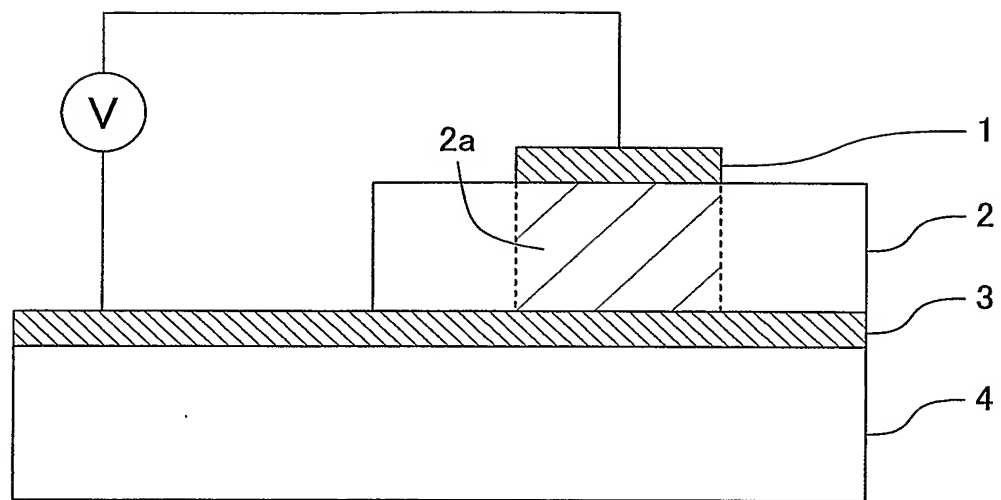
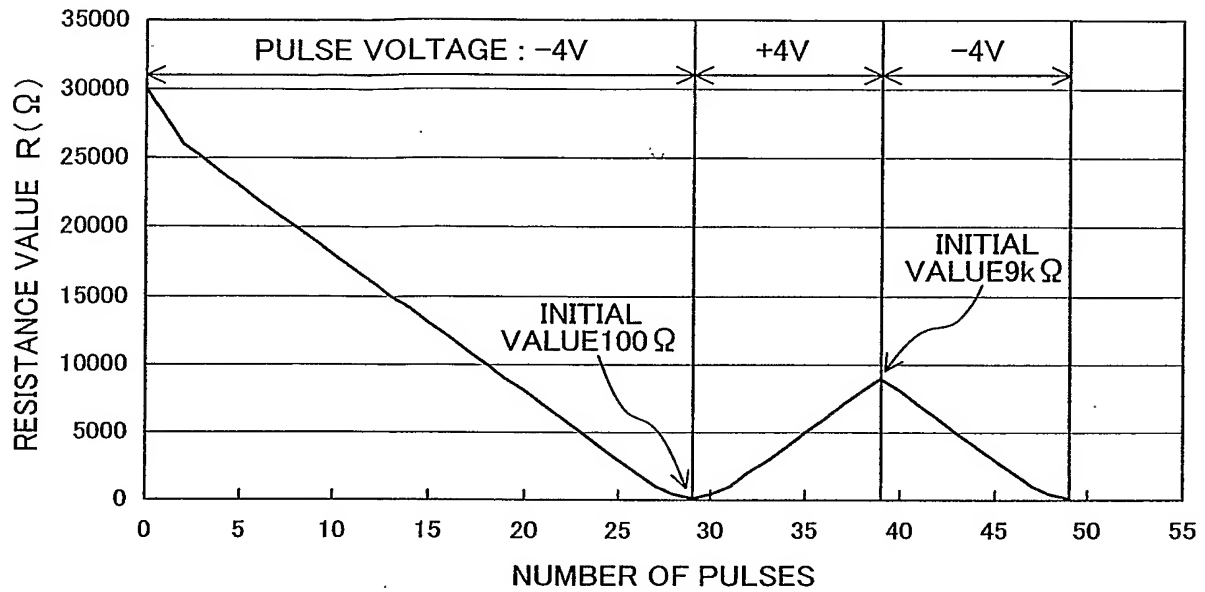
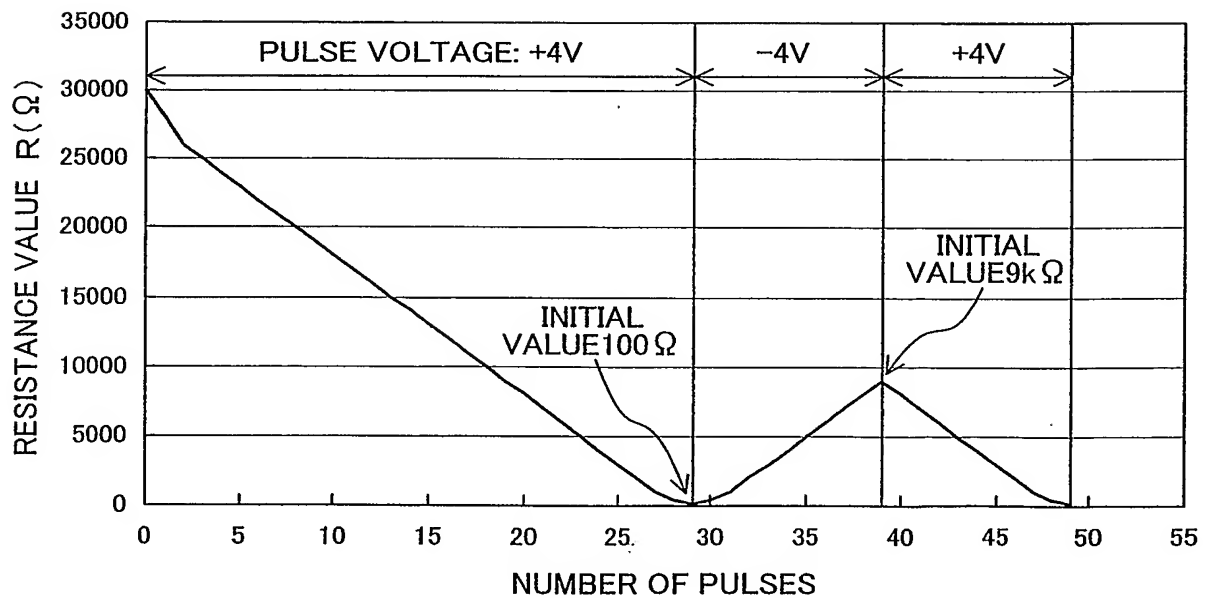
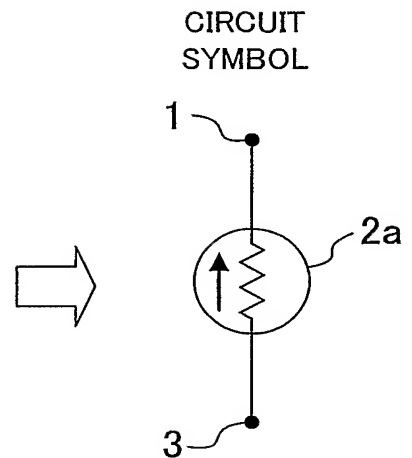
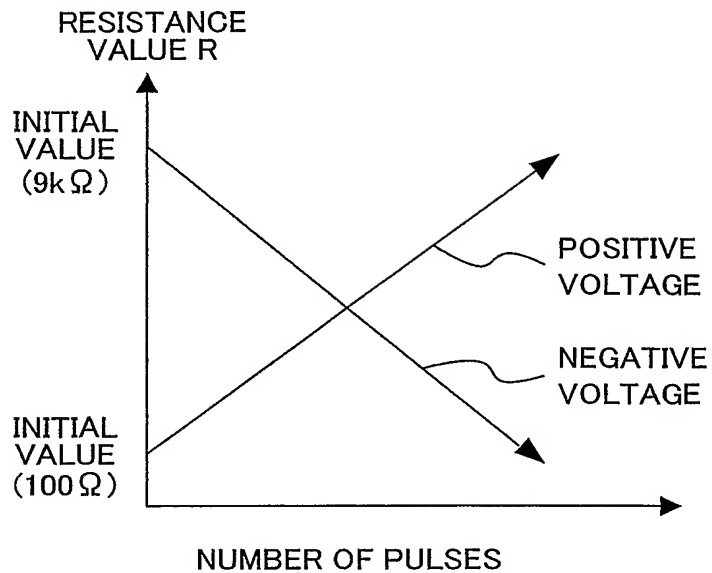
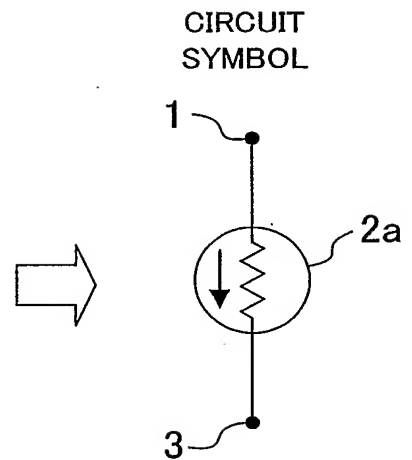
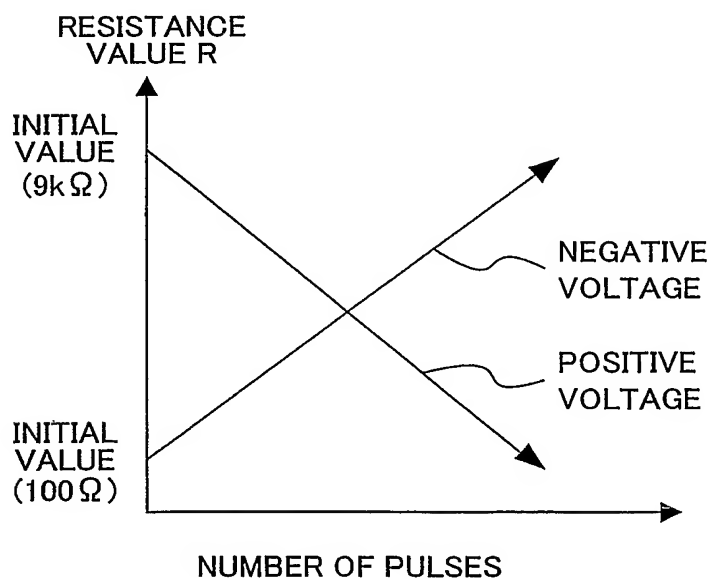


FIG. 2

(a) VARIABLE RESISTOR α (b) VARIABLE RESISTOR β 

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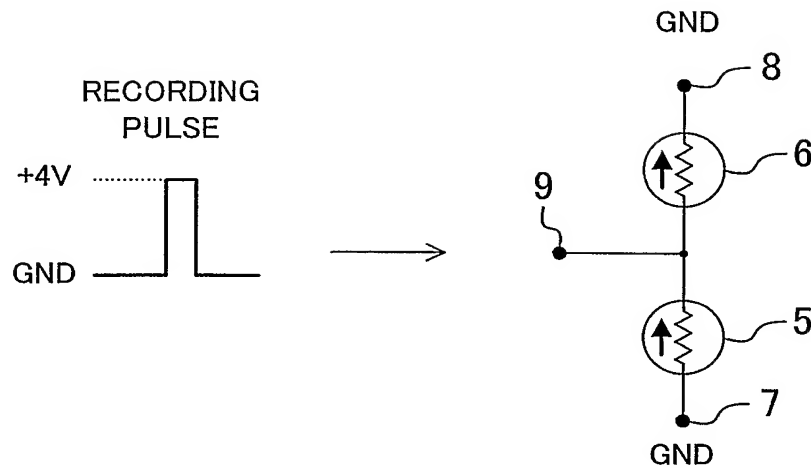
FIG. 3

(a) VARIABLE RESISTOR α (b) VARIABLE RESISTOR β 

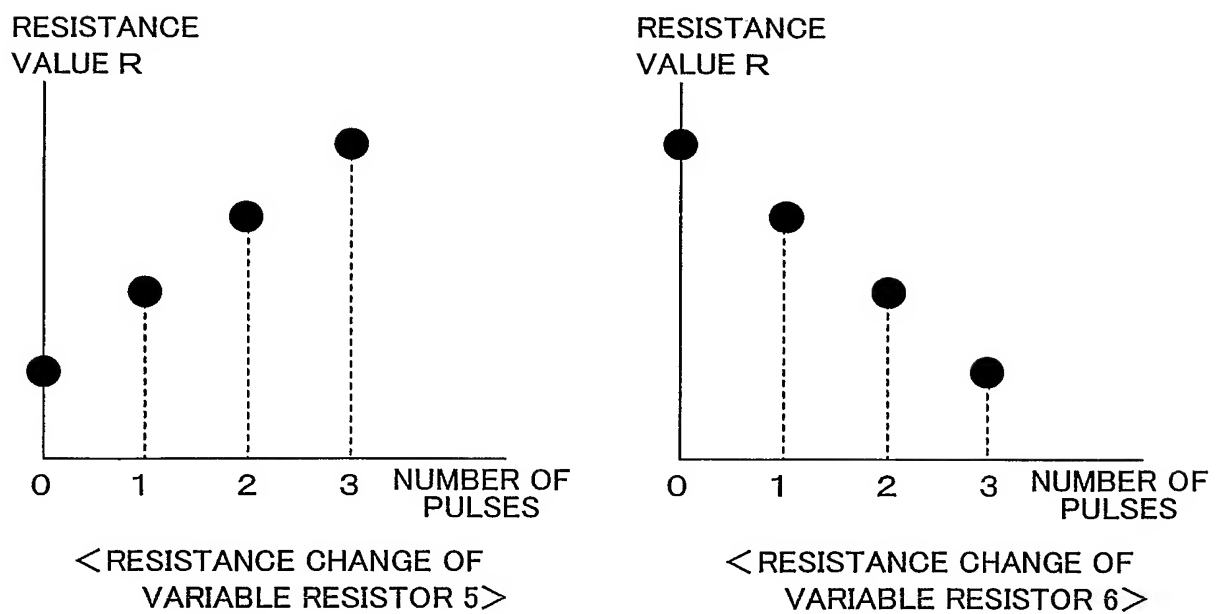
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FIG. 4

(a) RECORDING



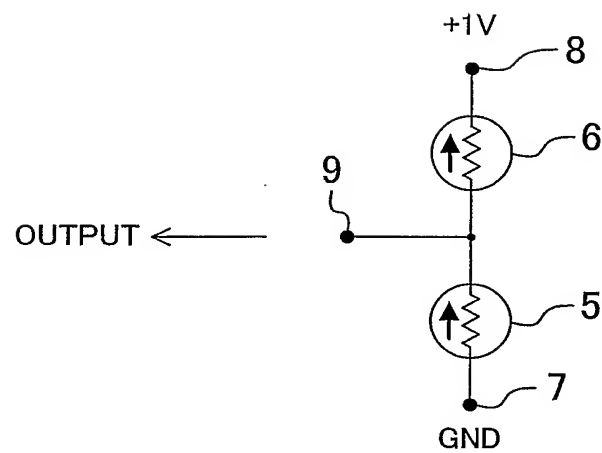
(b) RESISTANCE CHANGE OF VARIABLE RESISTOR



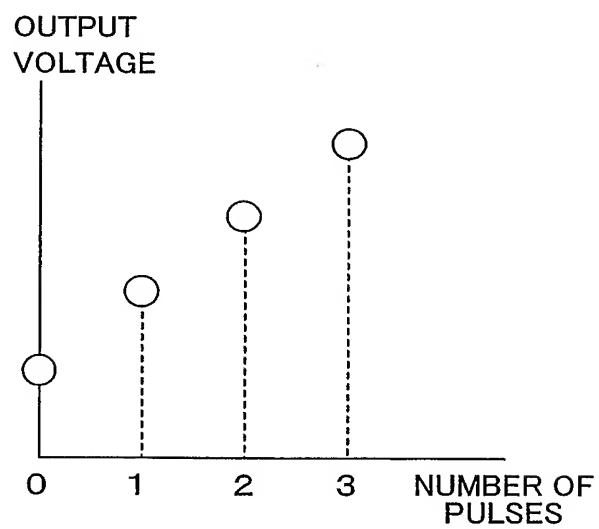
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FIG. 5

(a) REPRODUCTION



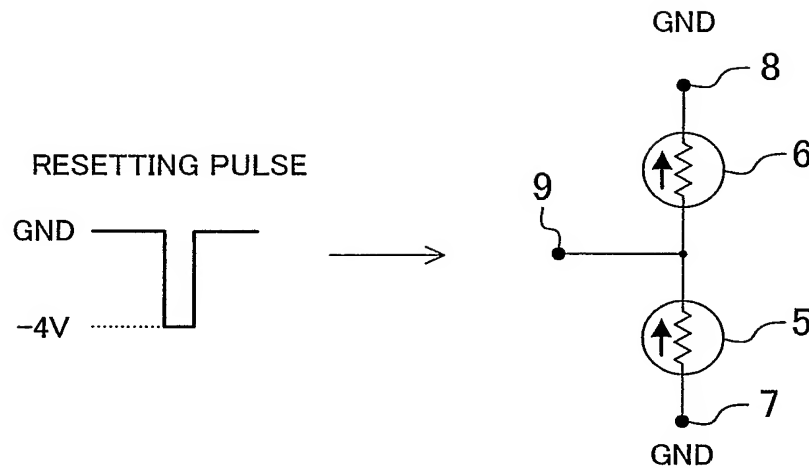
(b) REPRODUCTION OUTPUT VOLTAGE



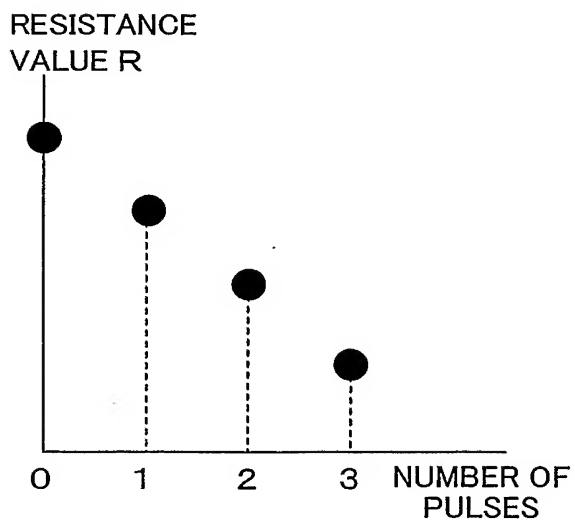
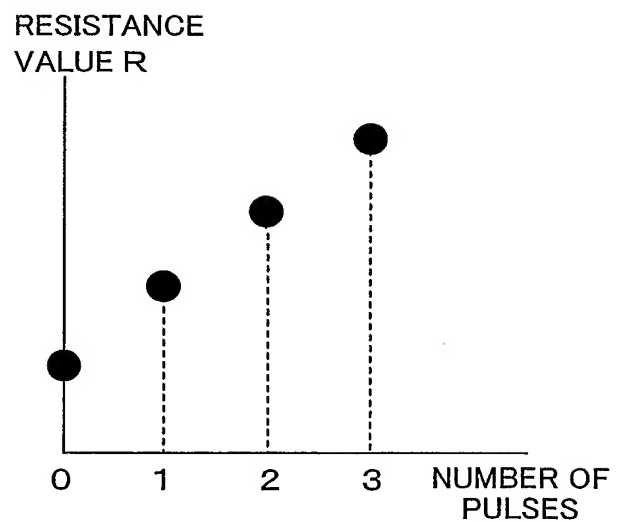
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FIG. 6

(a) RESETTING



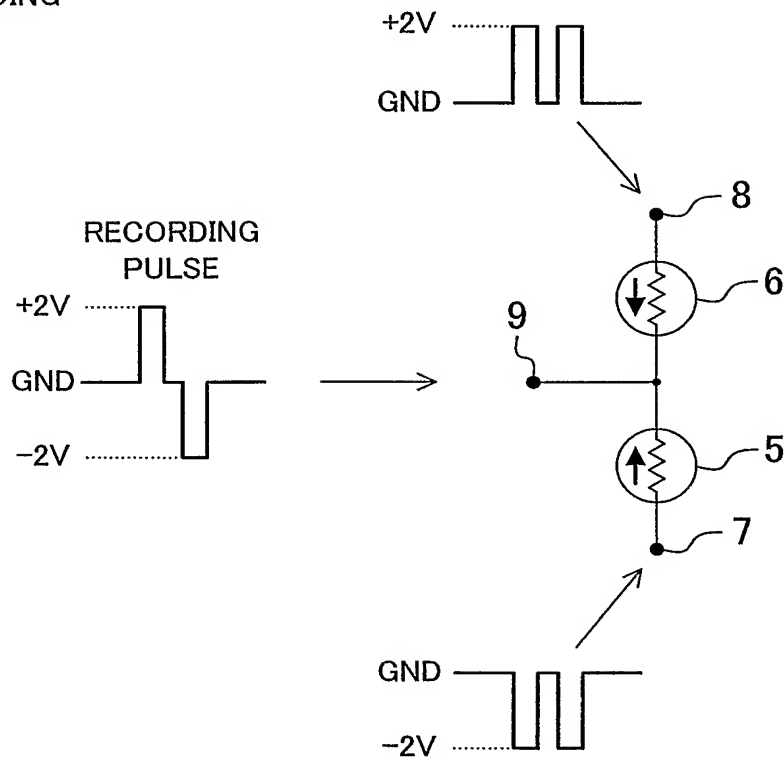
(b) RESISTANCE CHANGE OF VARIABLE RESISTOR

< RESISTANCE CHANGE OF
VARIABLE RESISTOR 5 >< RESISTANCE CHANGE OF
VARIABLE RESISTOR 6 >

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FIG. 7

(a) RECORDING



(b) RESISTANCE CHANGE OF VARIABLE RESISTOR

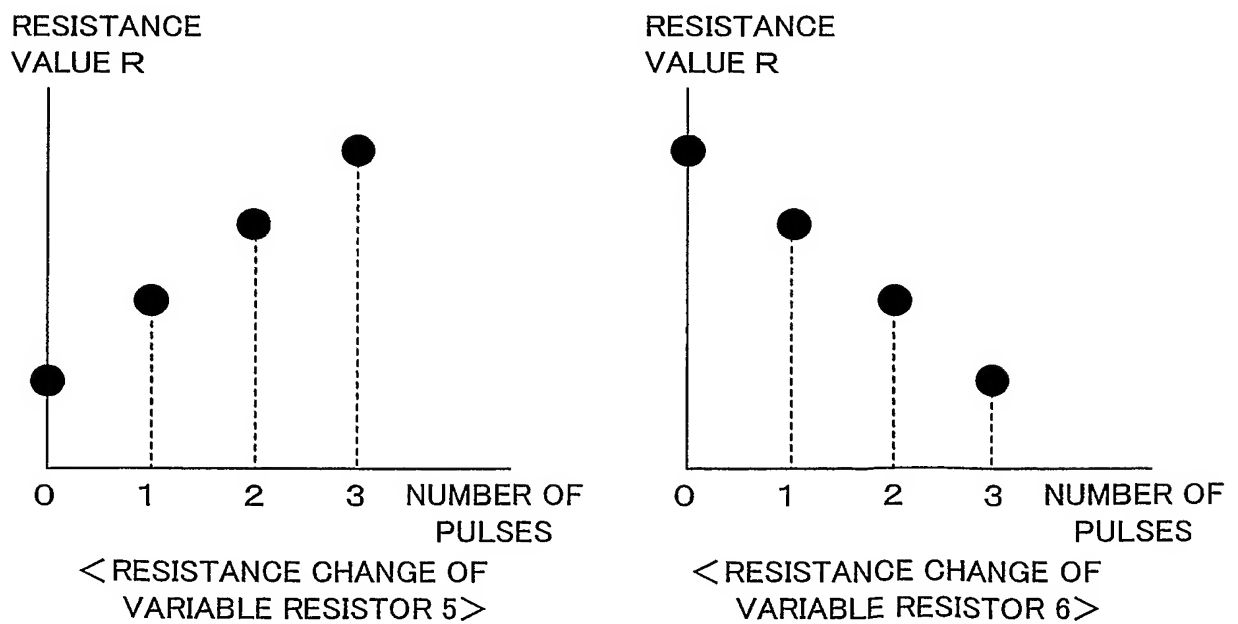


FIG. 8

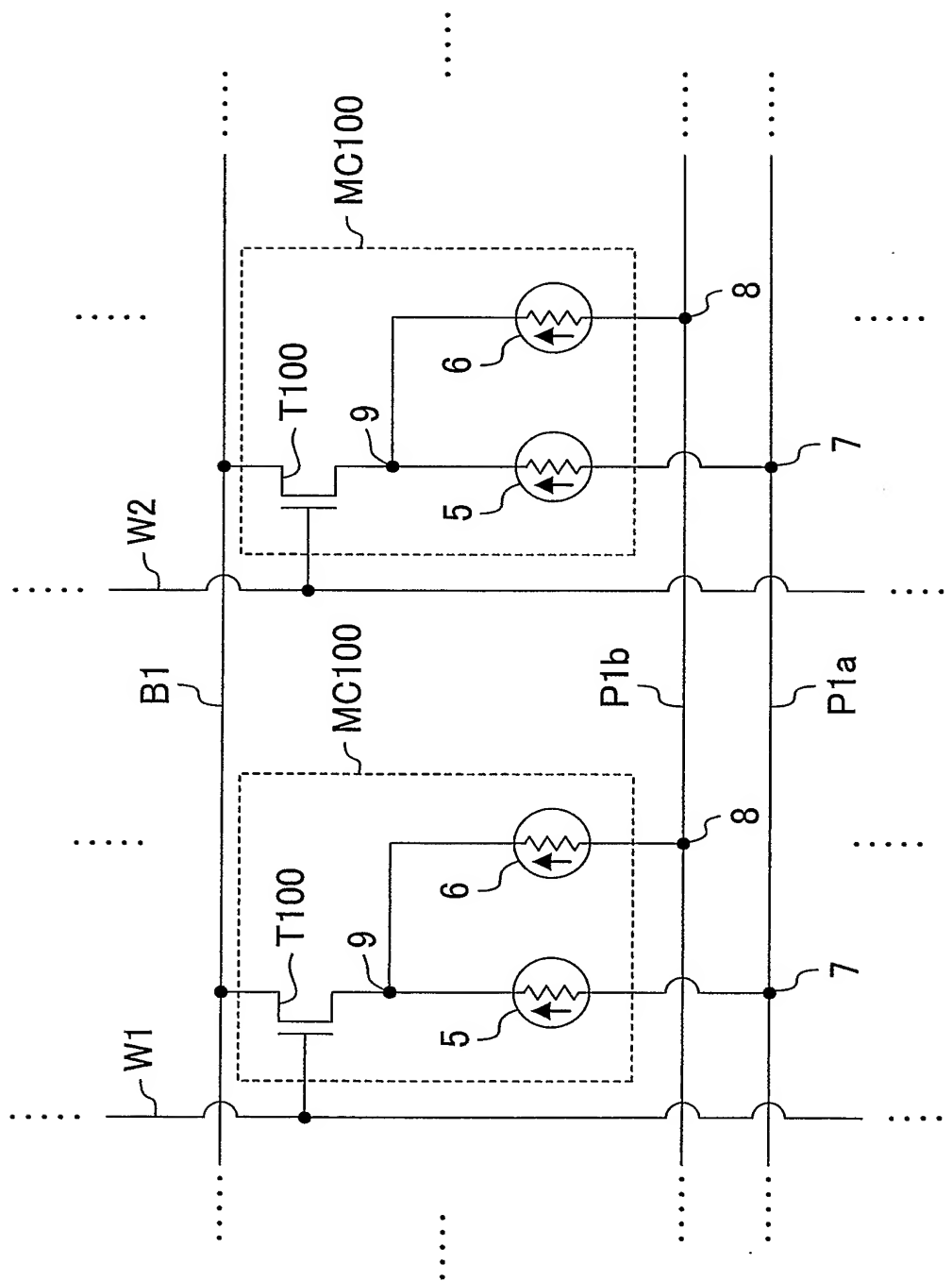


FIG. 9

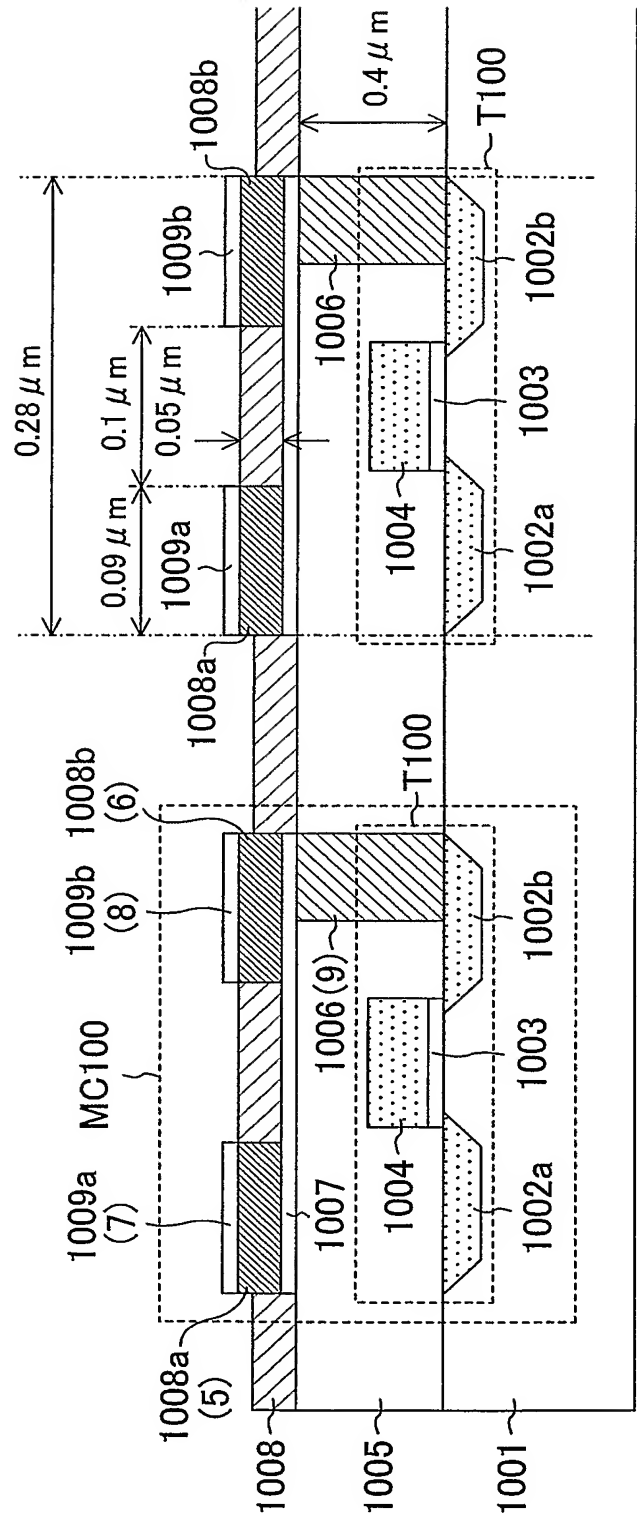
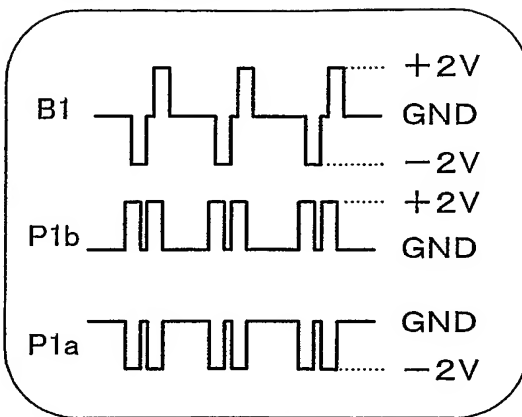


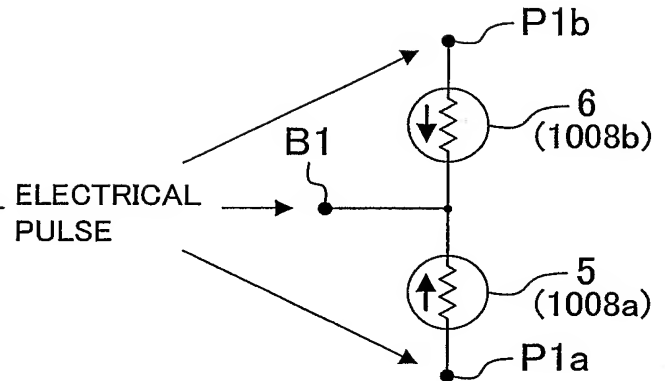
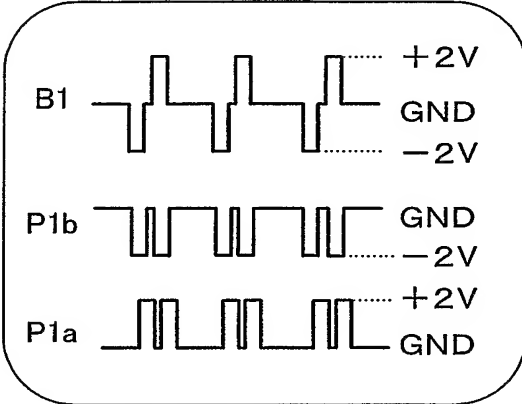
FIG. 10

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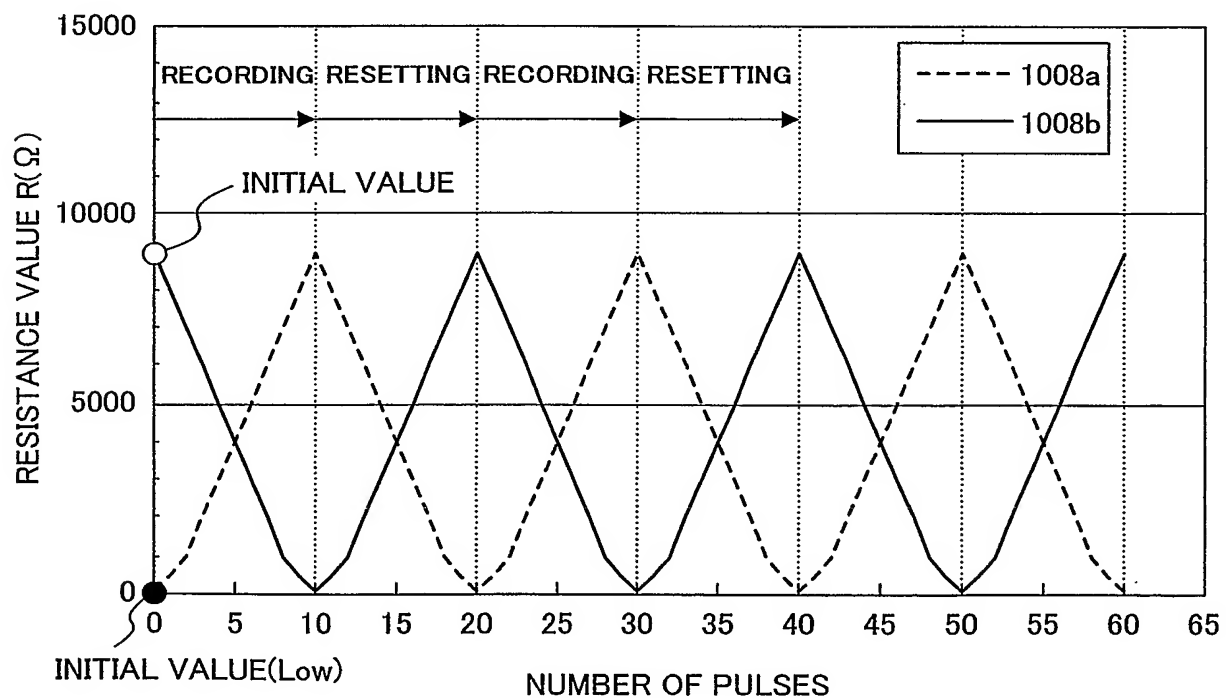
(a) RECORDING



RESETTING



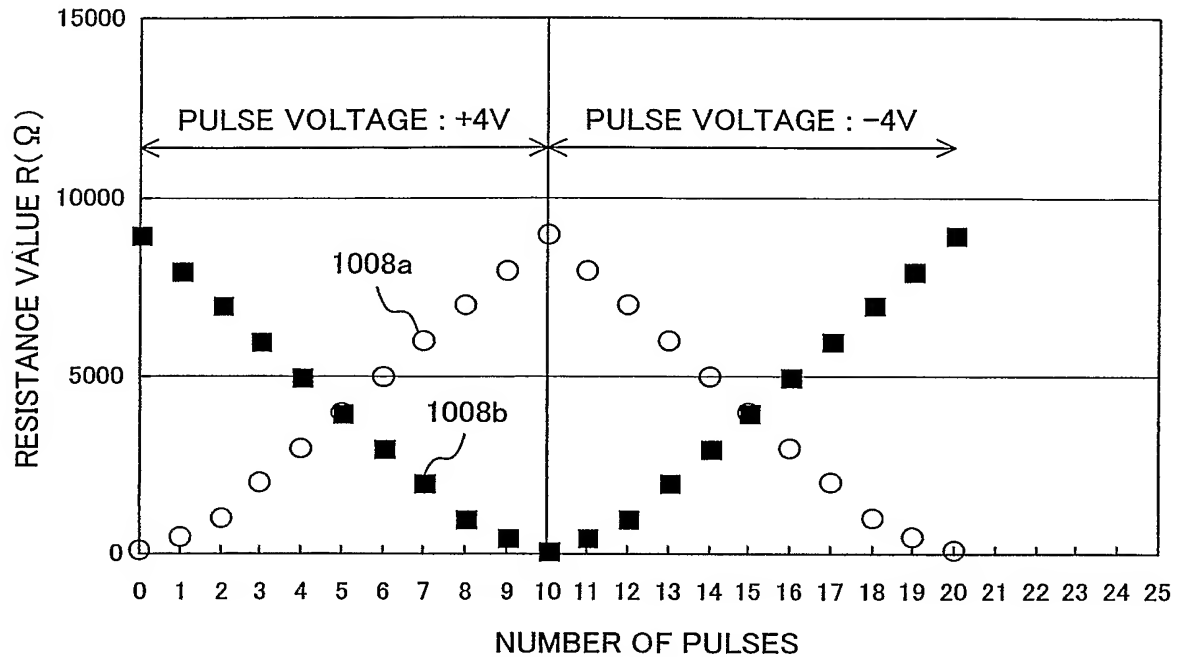
(b)



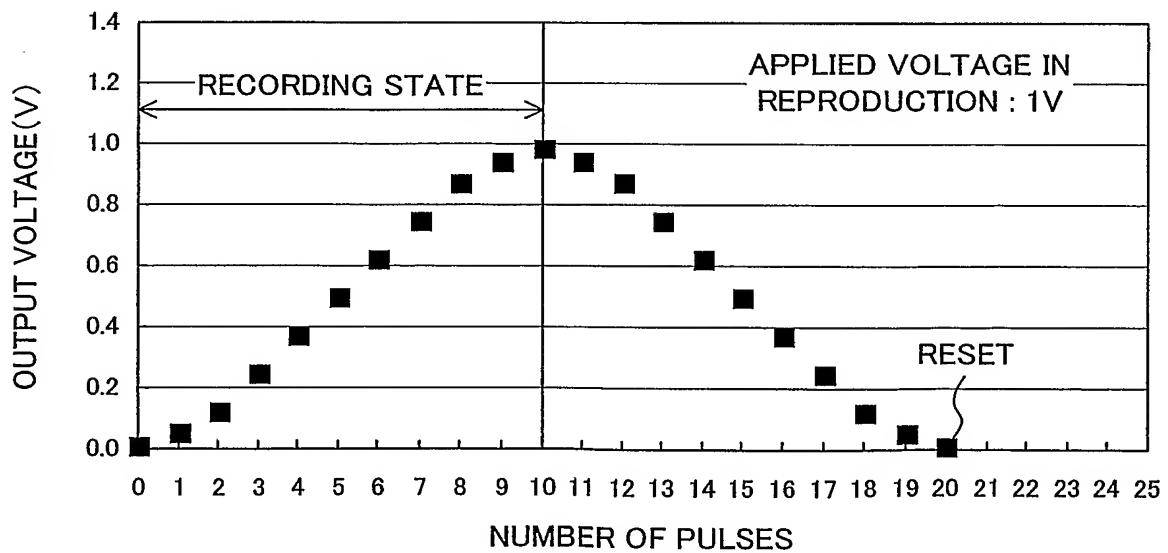
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FIG. 11

(a) RESISTANCE CHANGE WITH NUMBER OF PULSES



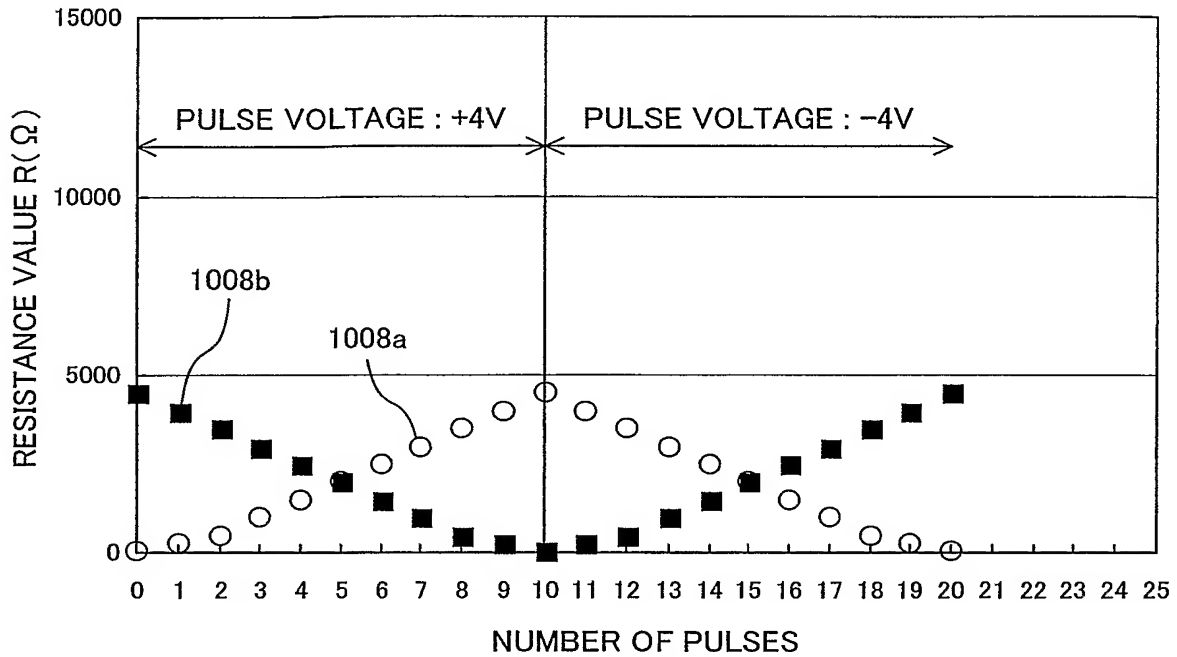
(b) OUTPUT VOLTAGE IN READOUT OF RECORDING STATE



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FIG. 12

(a) RESISTANCE CHANGE WITH NUMBER OF PULSES



(b) OUTPUT VOLTAGE IN READOUT OF RECORDING STATE

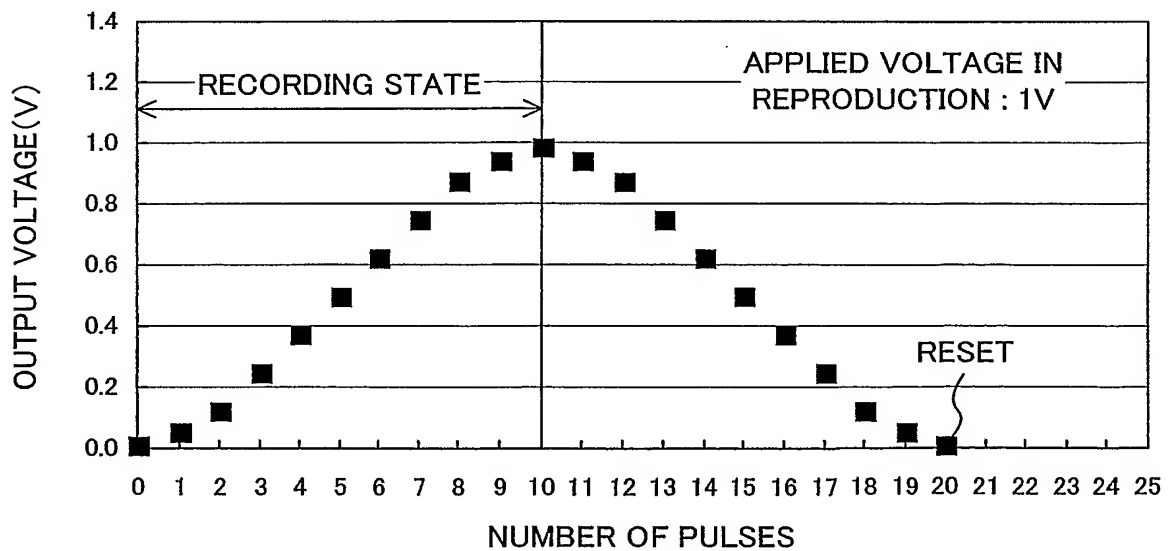


FIG. 13

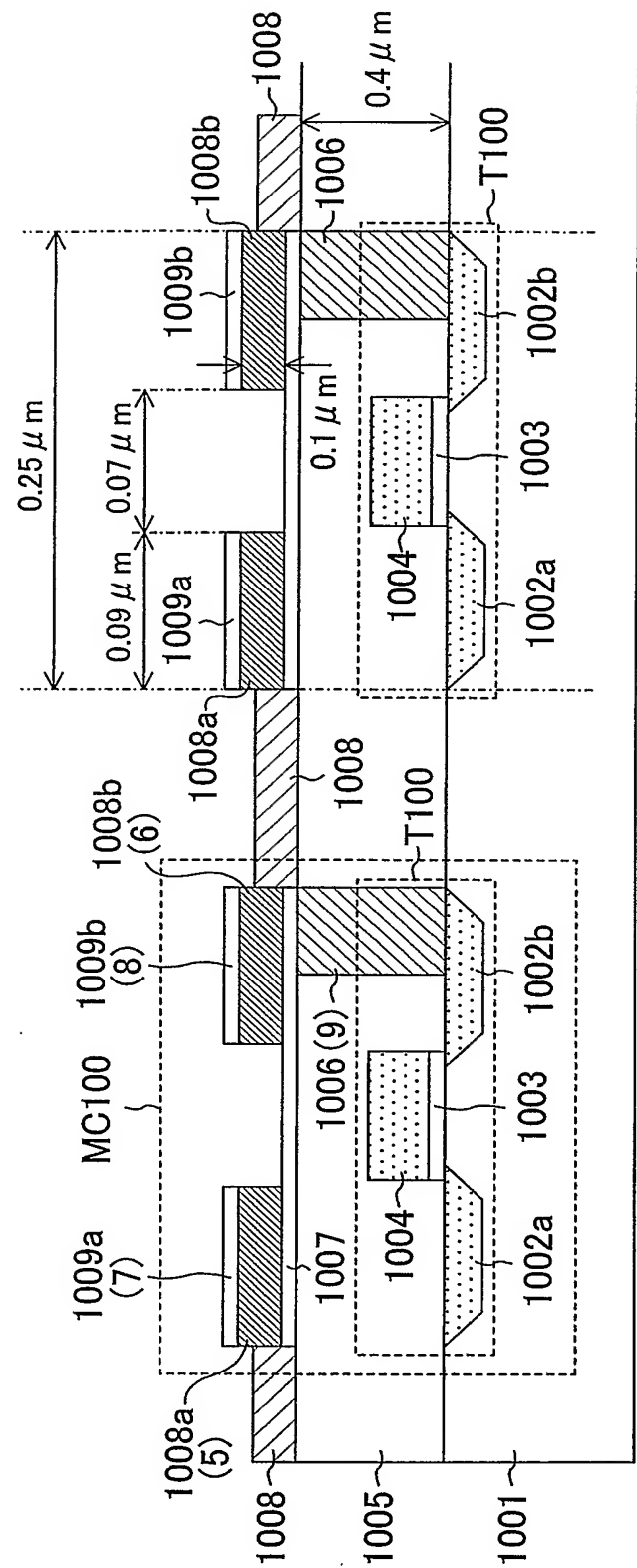
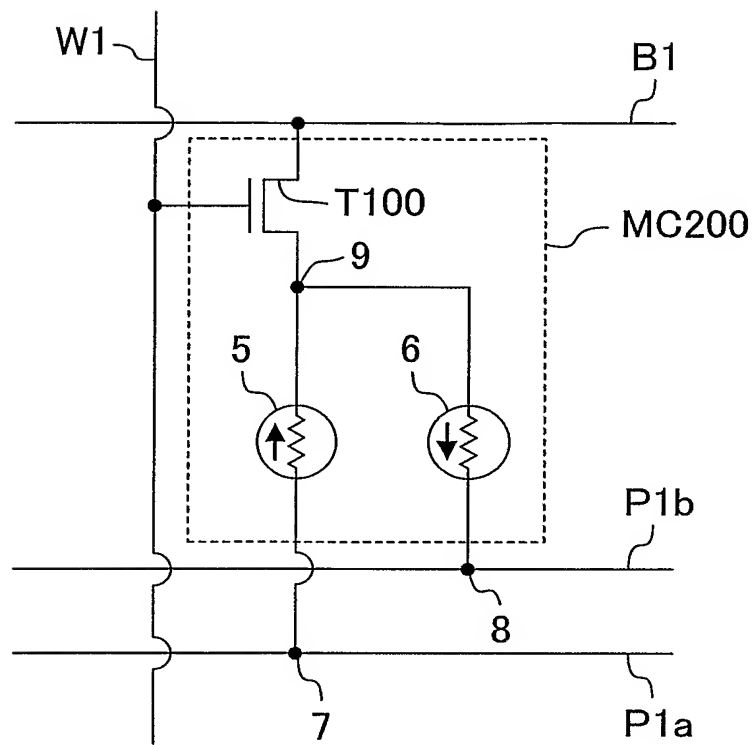


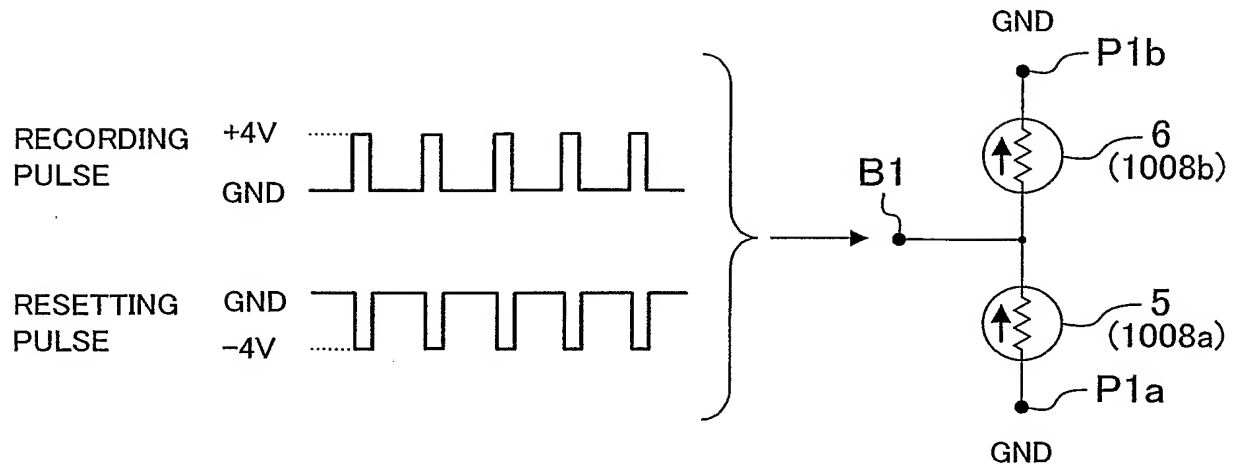
FIG. 14



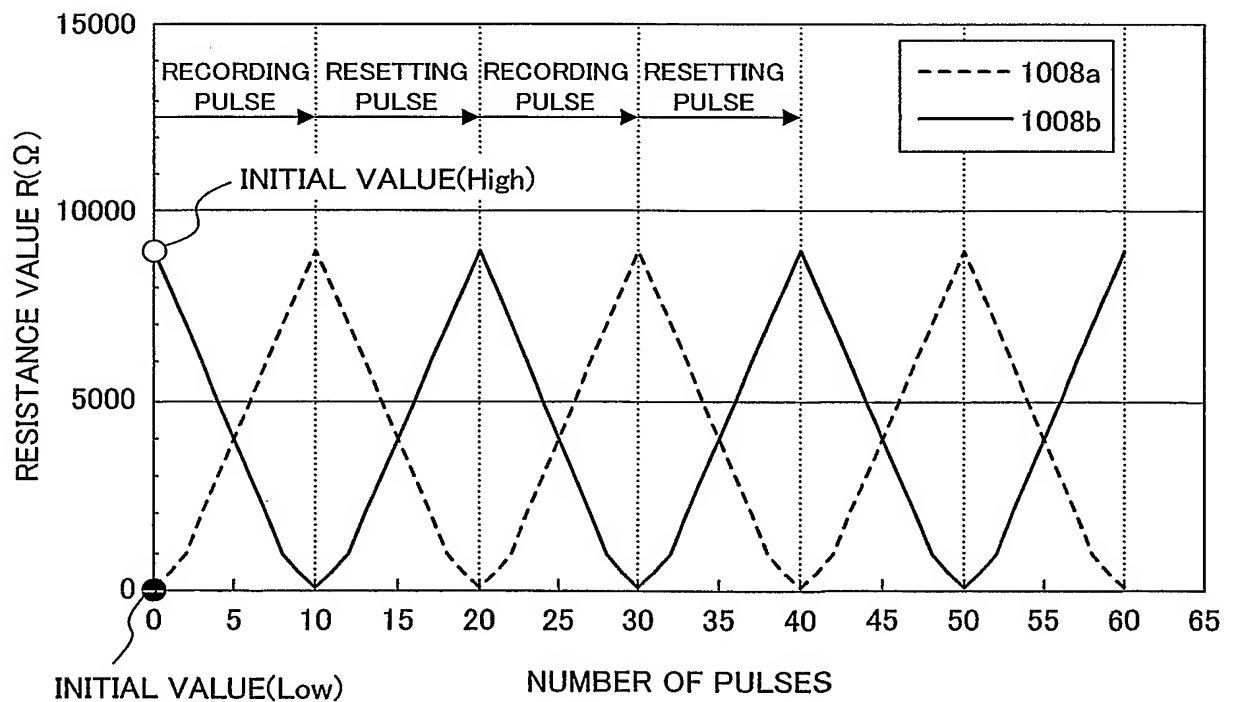
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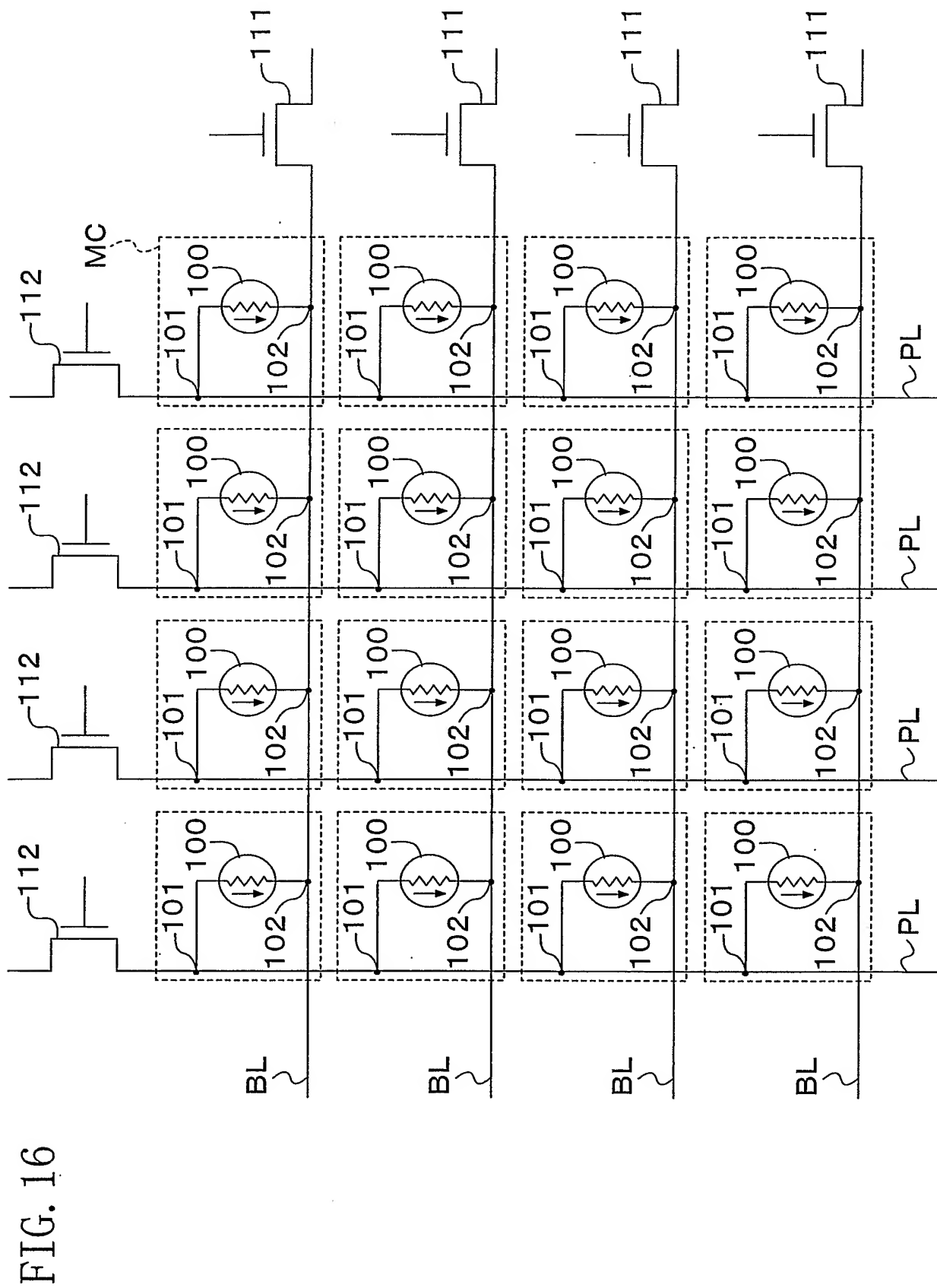
FIG. 15

(a)



(b)





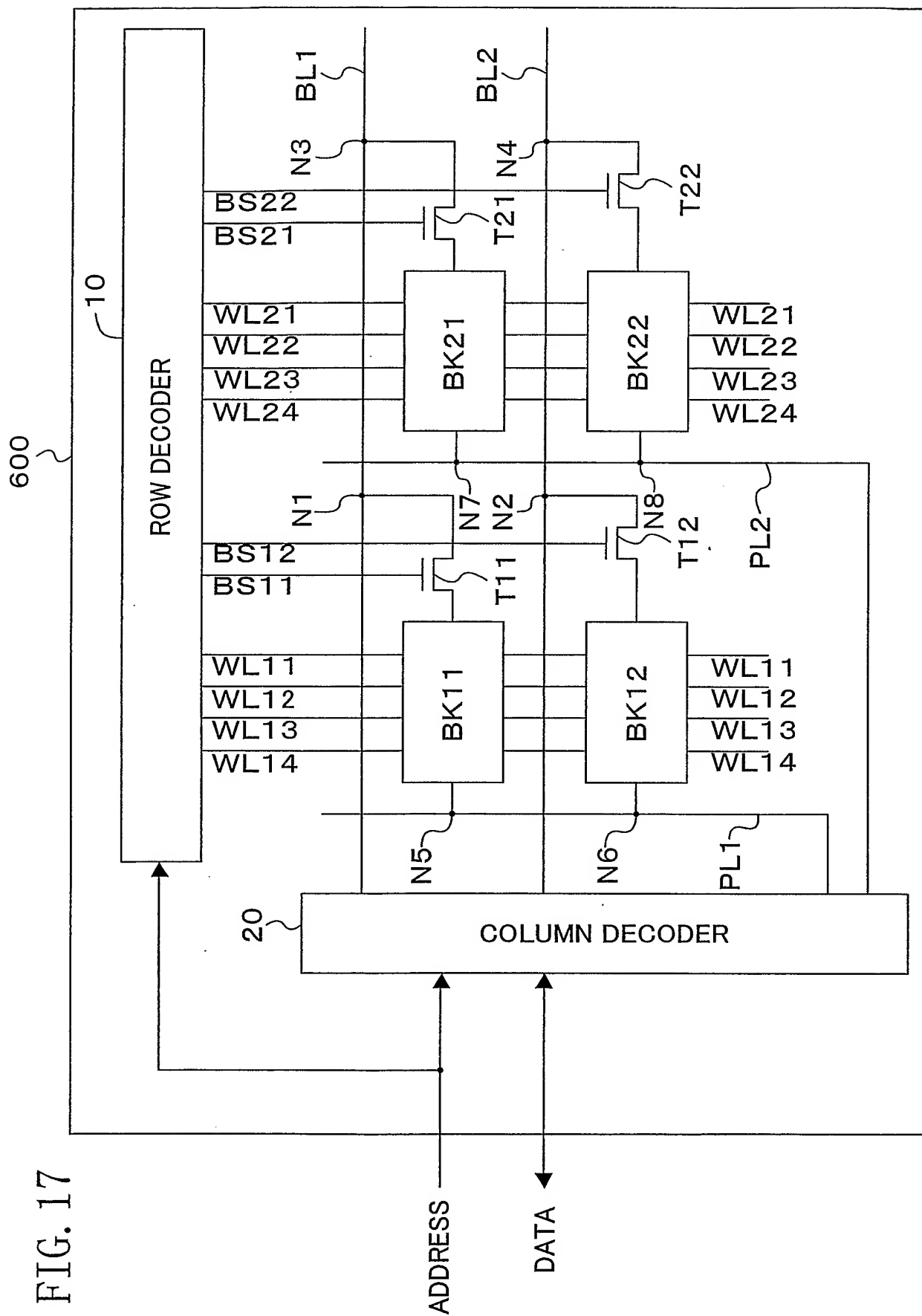


FIG. 18

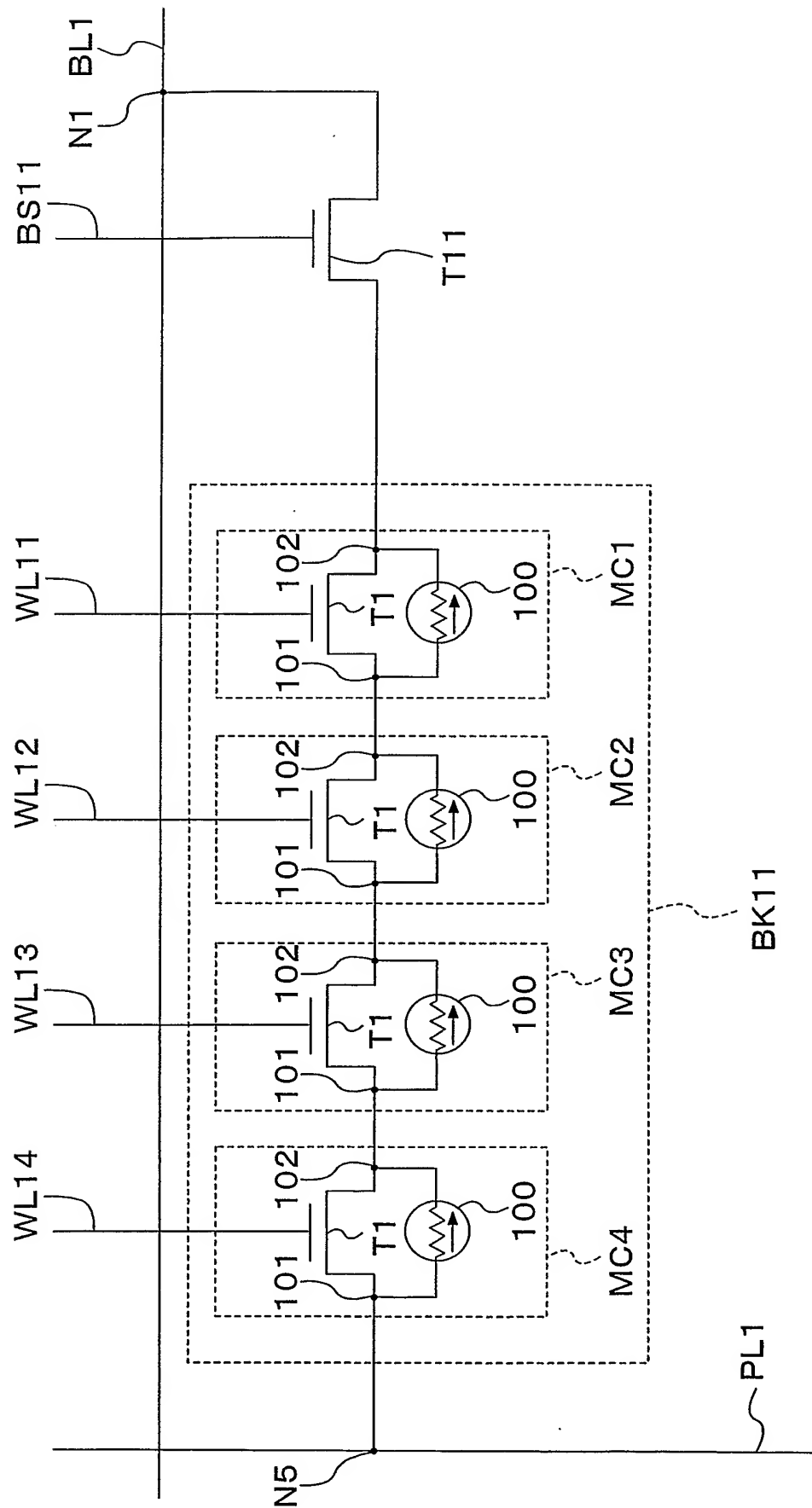
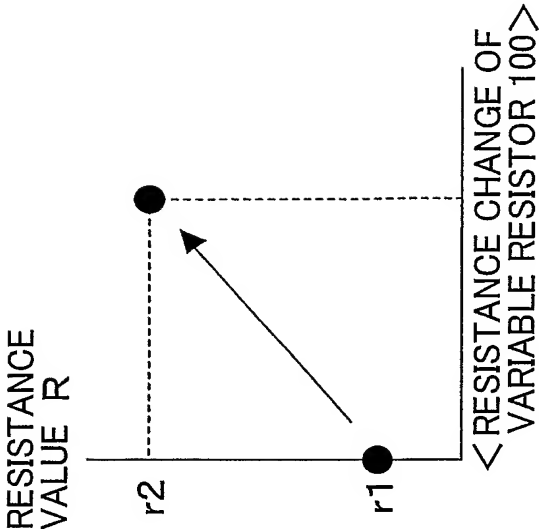
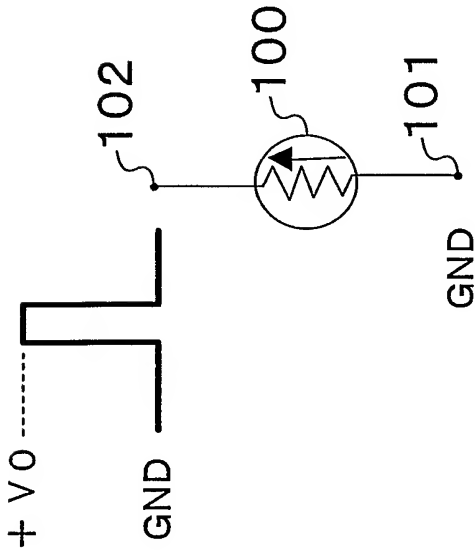
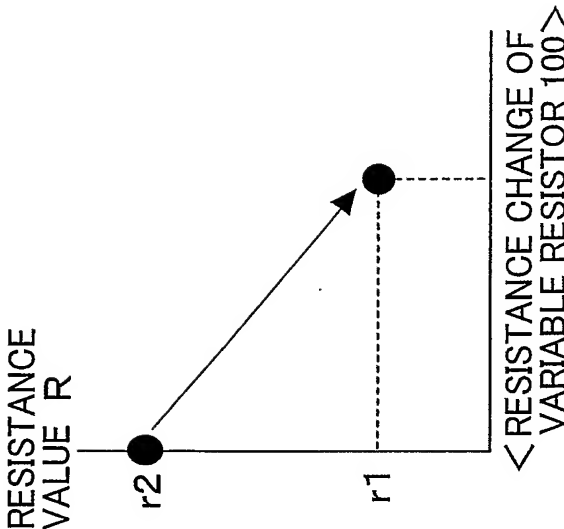
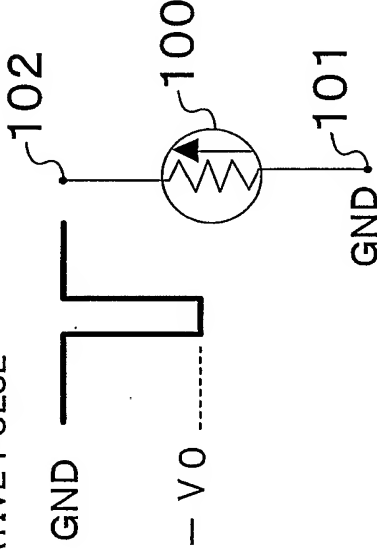


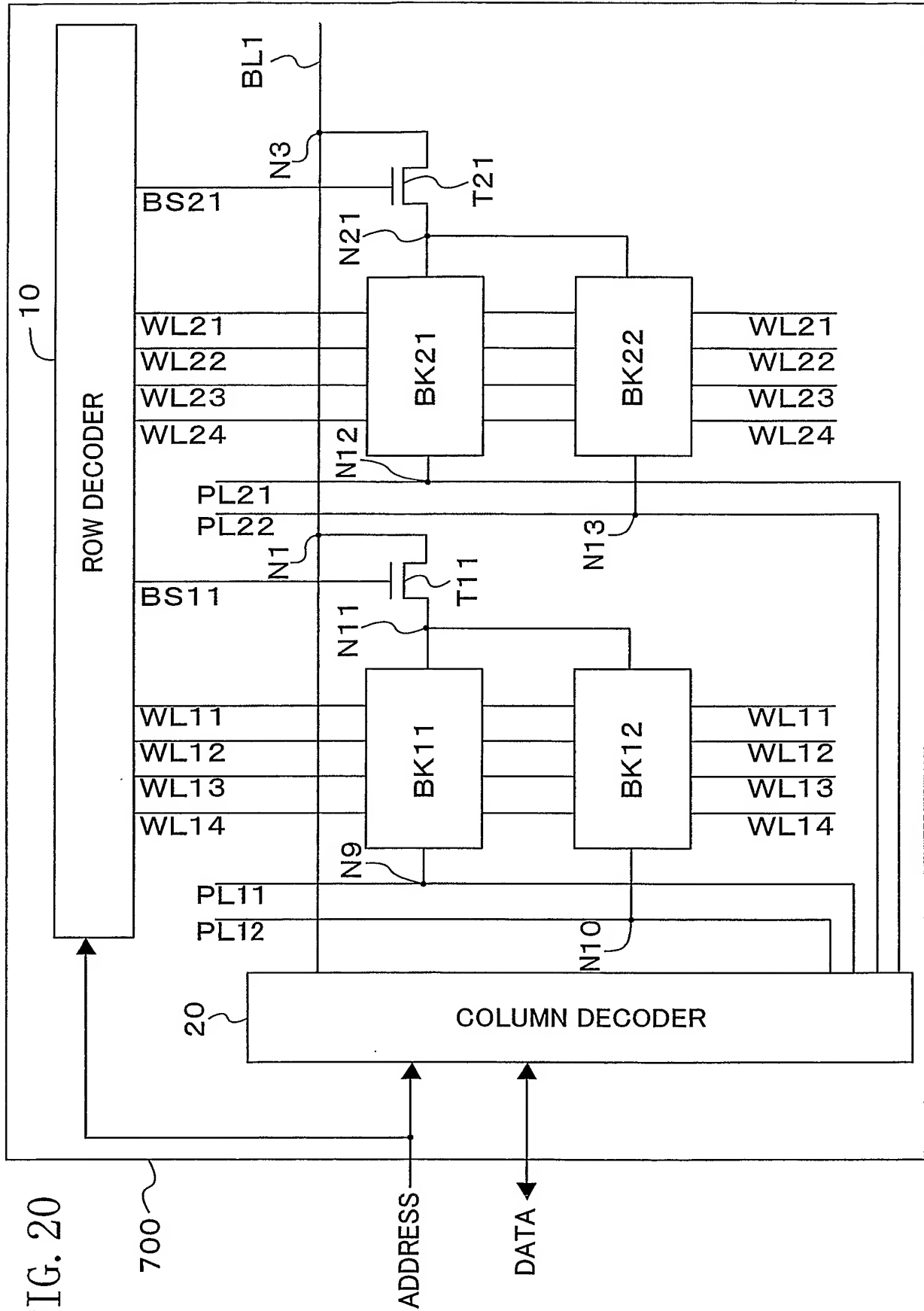
FIG. 19

(a) POSITIVE PULSE



(b) NEGATIVE PULSE





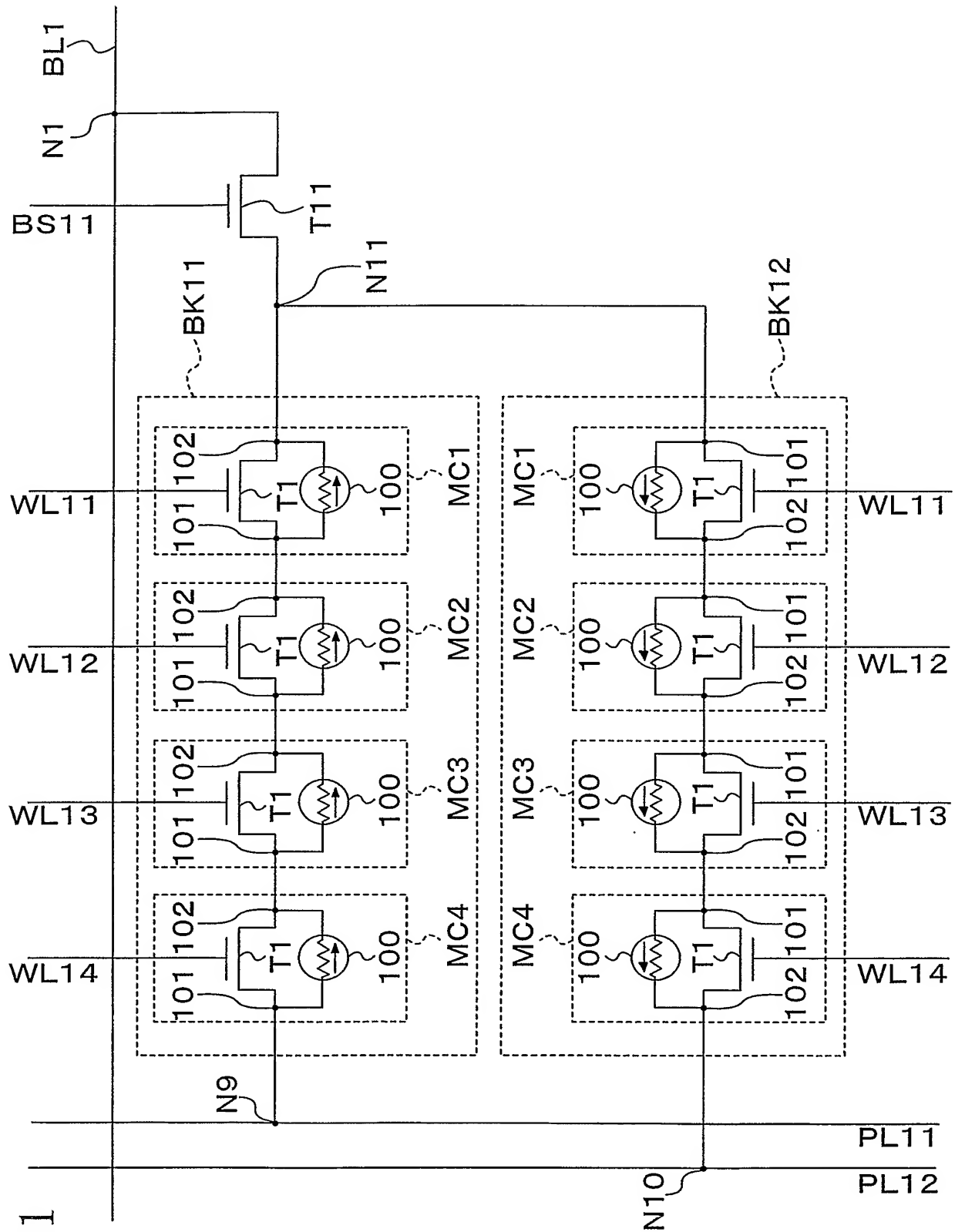
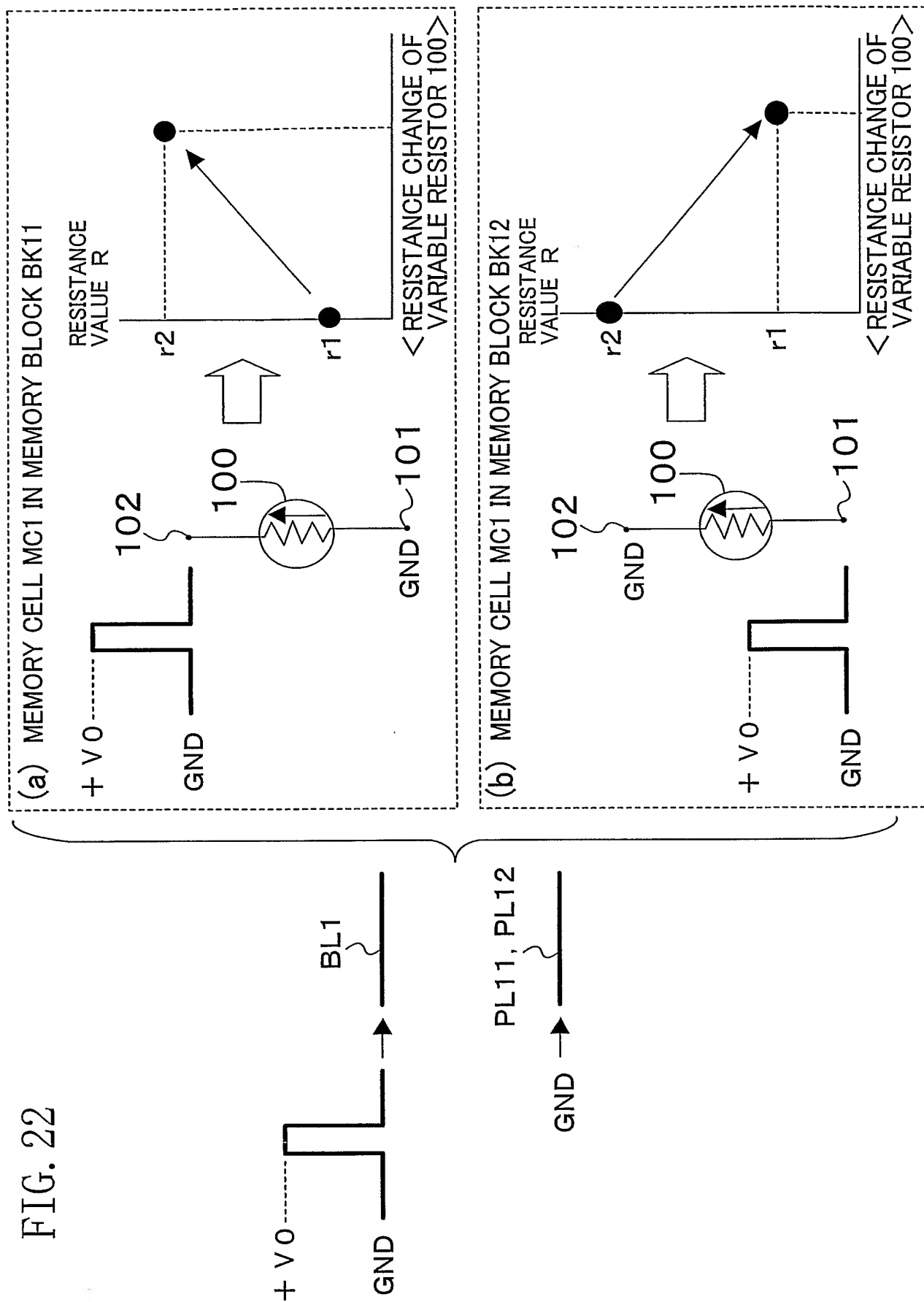


FIG. 21

FIG. 22



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FIG. 23

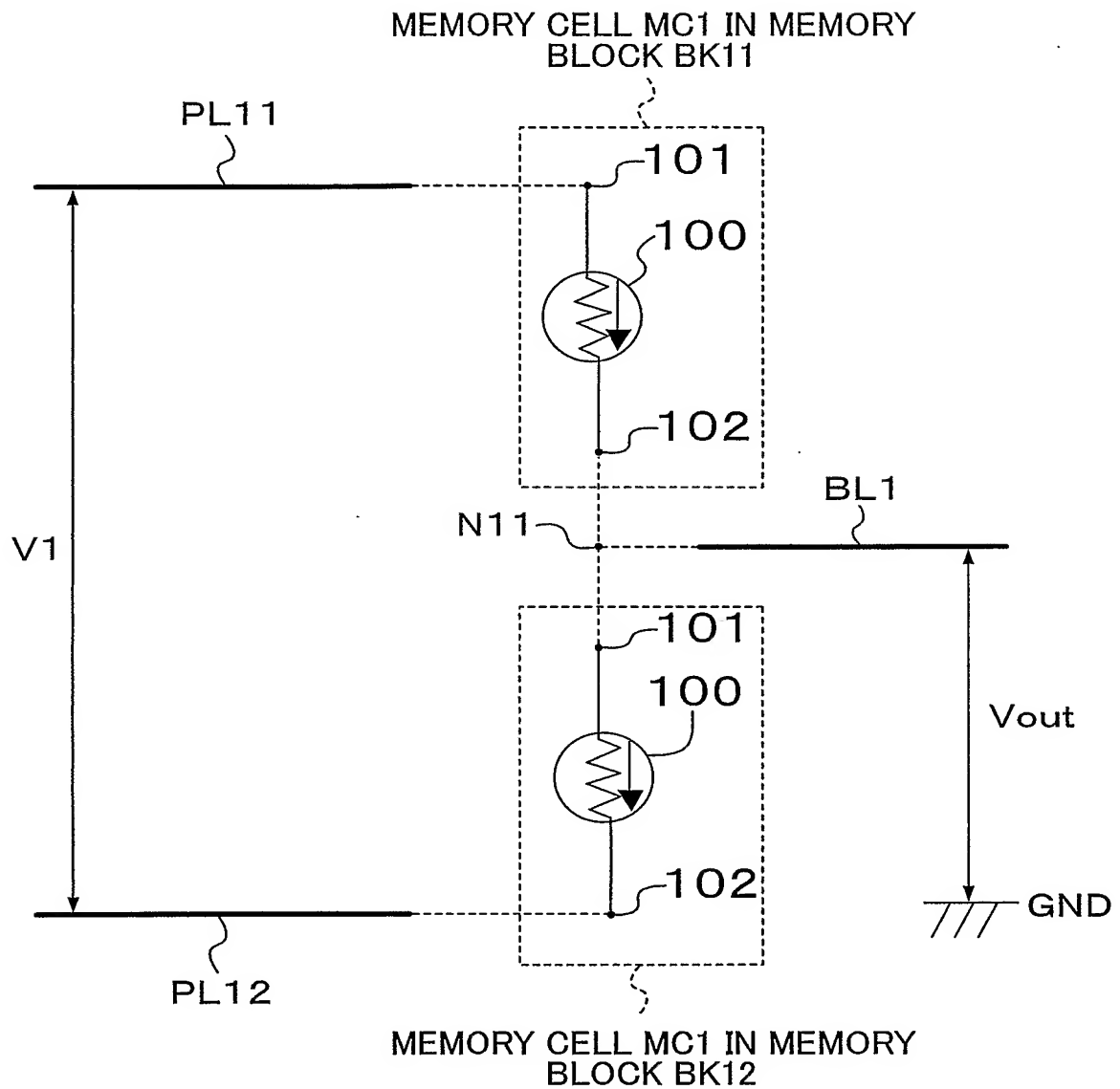
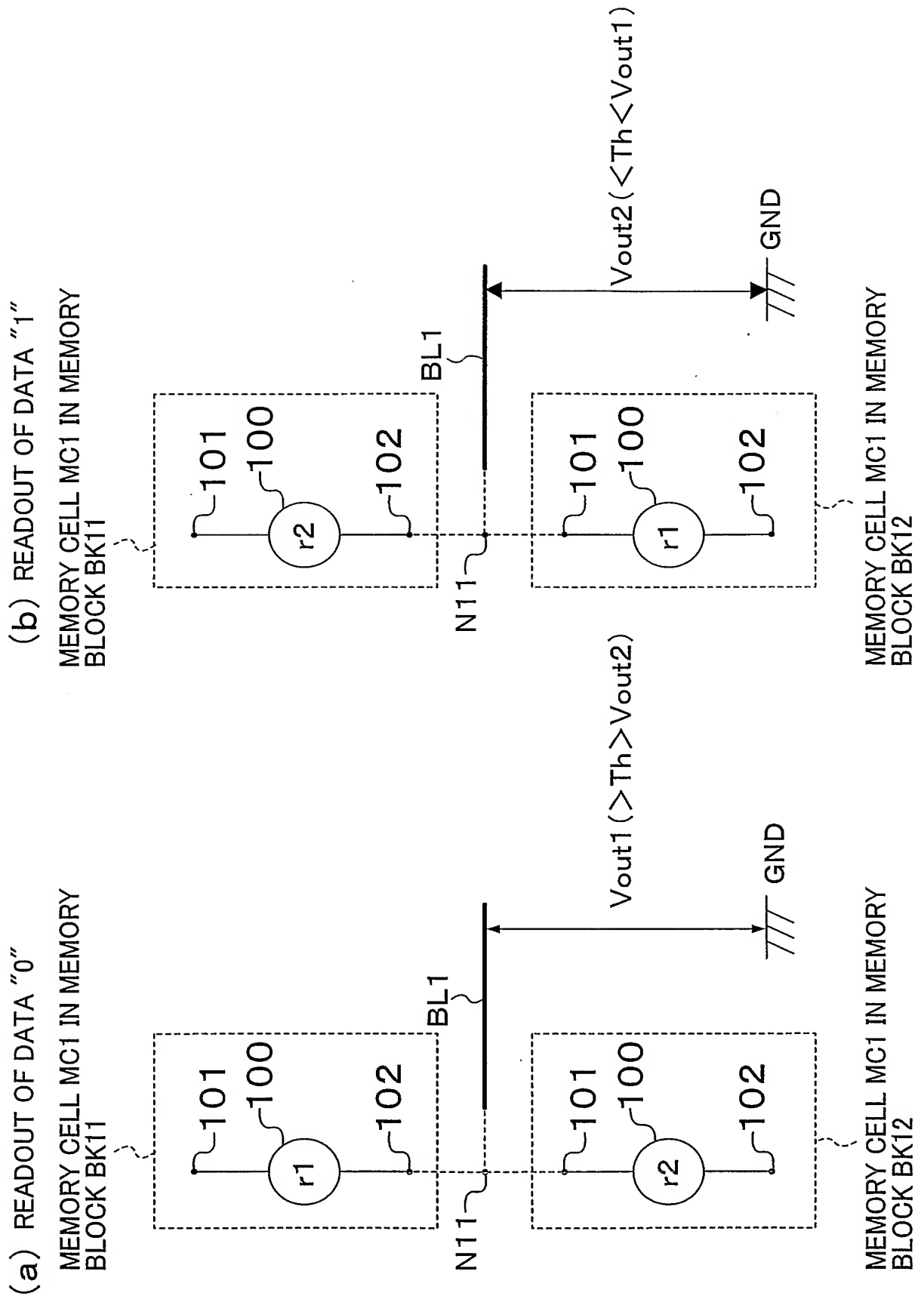
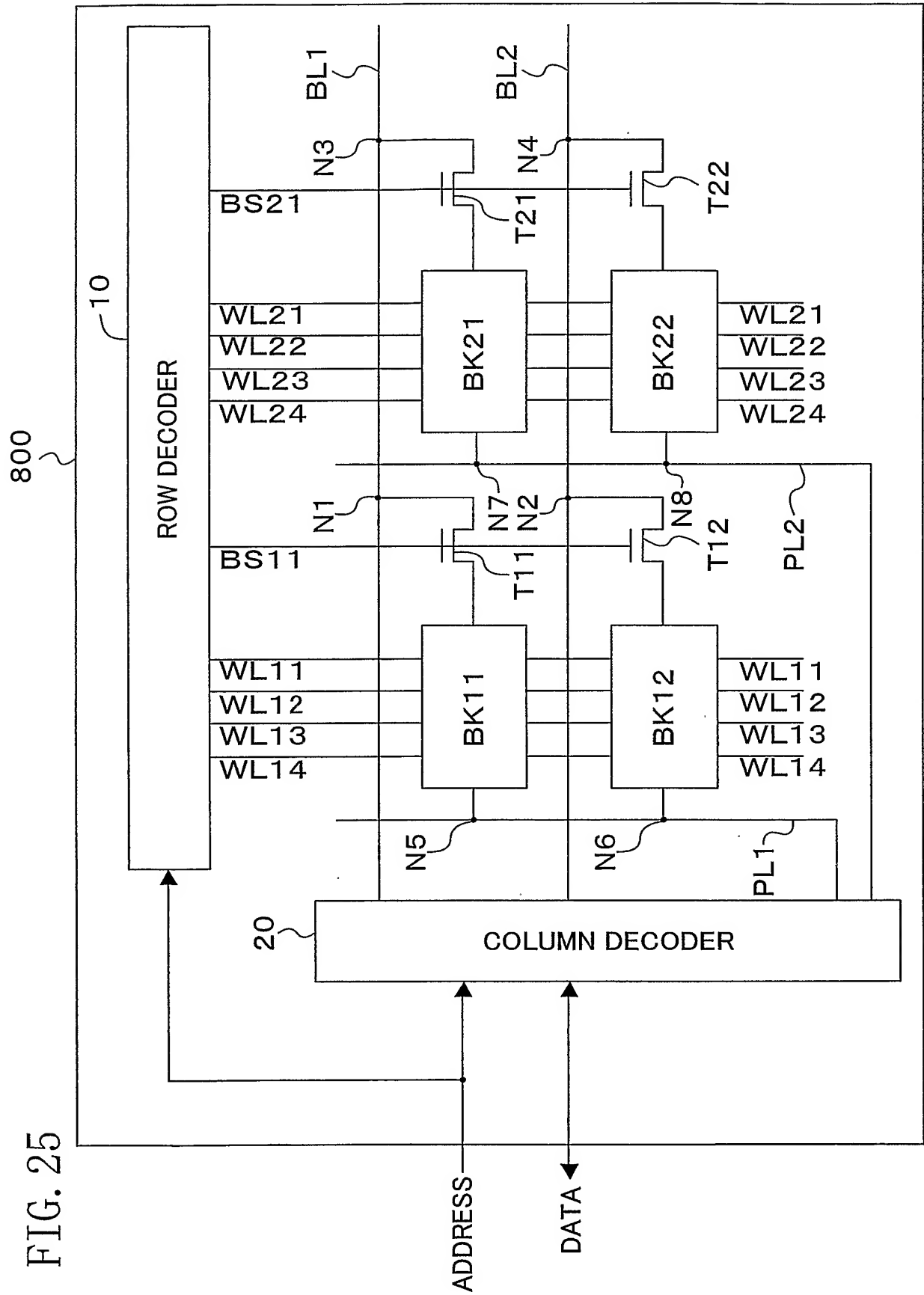


FIG. 24





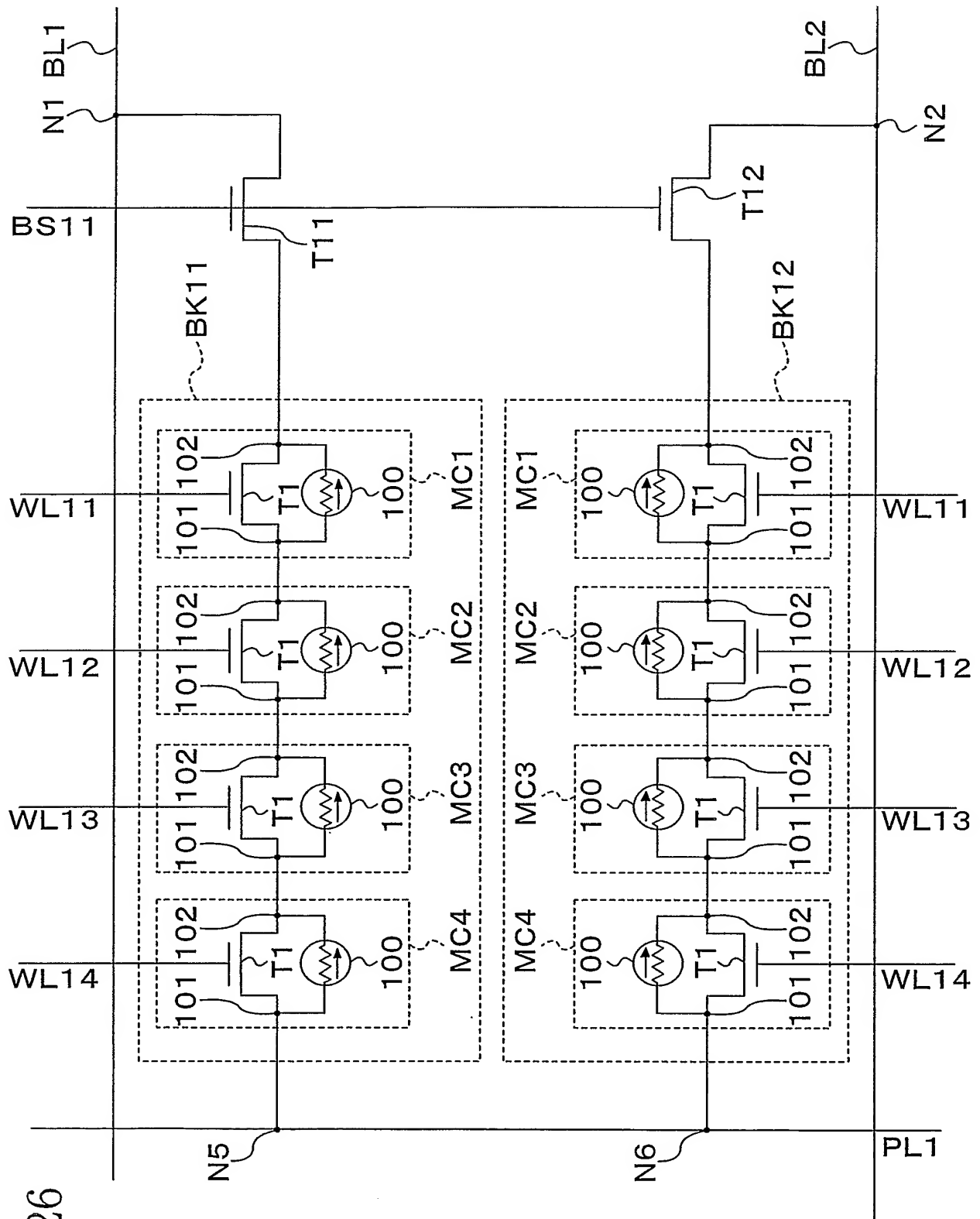
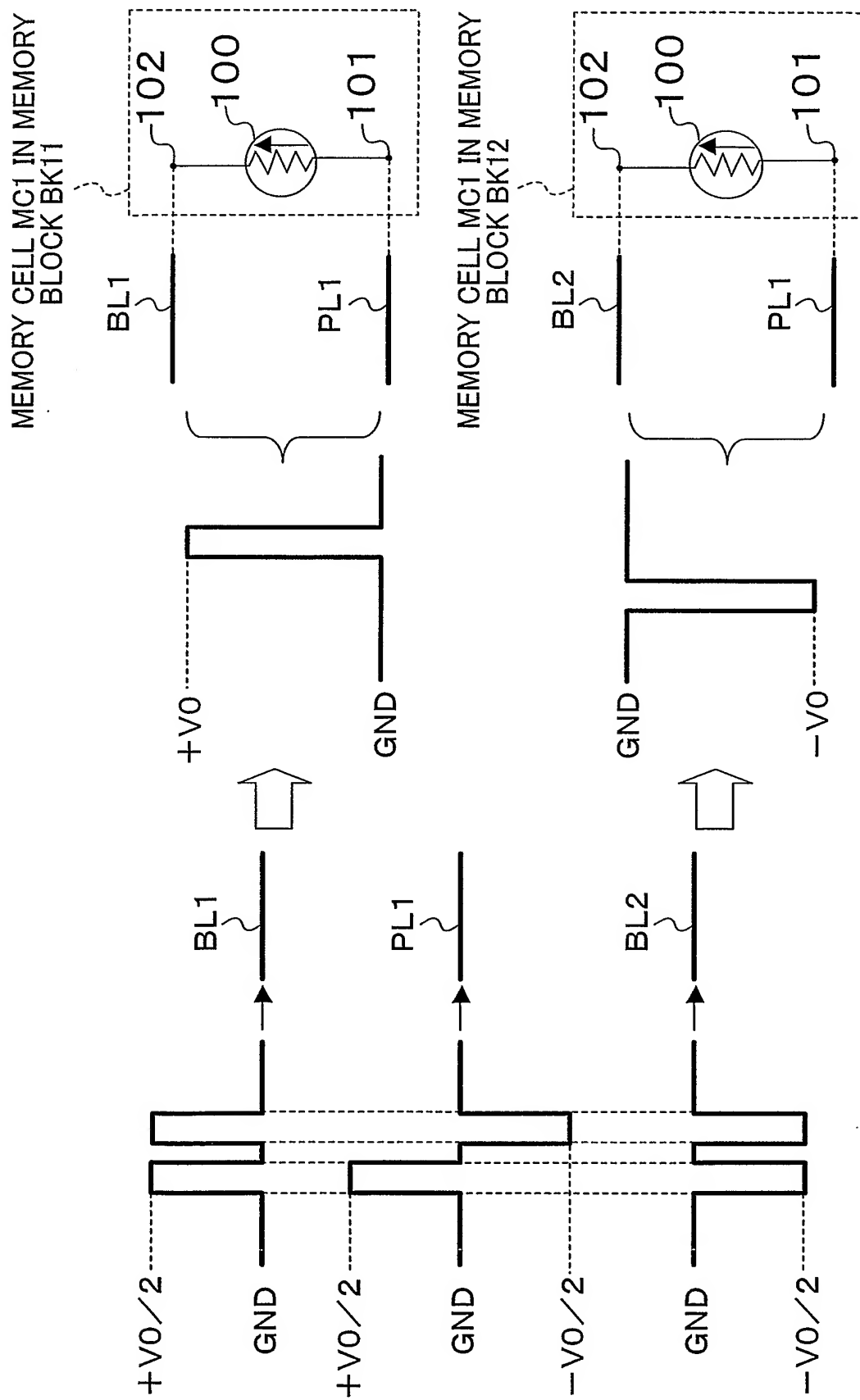


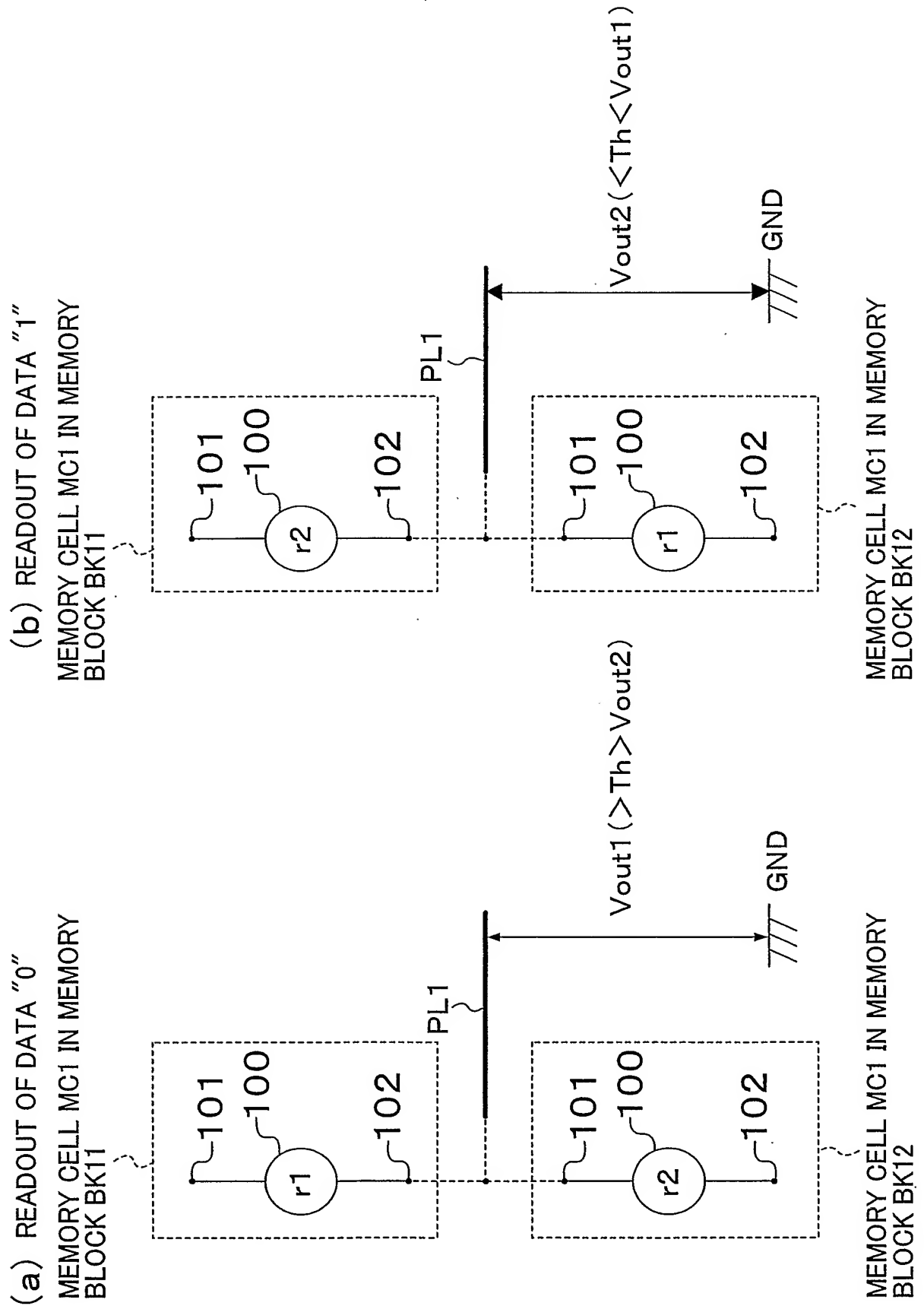
FIG. 26

FIG. 27



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FIG. 29



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FIG. 30

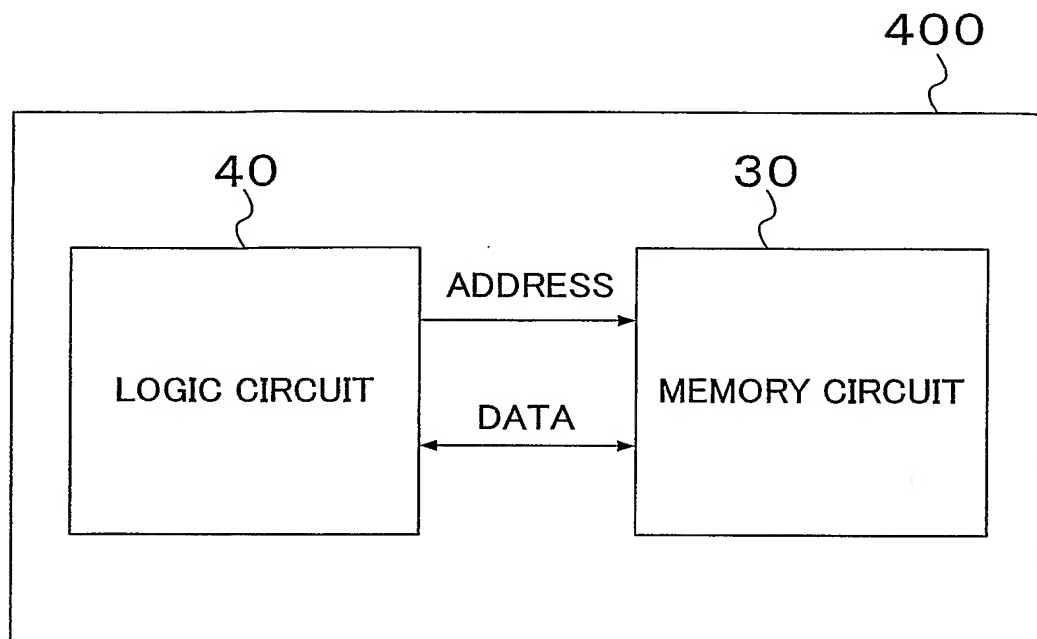


FIG. 31

